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- Botis 5-linealis Grote.
Botis phœniecealis Hubn.
Botis adipaloides G. & R.
Eurycreon rantalil Guen.
Eurycreon onythesalis Walk.
Eurycreon cereralis Zeller.
Eurycreon sticticalis Linn.
Crocidophora tubercularis Led.
Scoptoenema integra Zeller.
Chilo crambidoides Grote n. sp.
Crambus lachellus Zincken.
Crambus edonis Grote n. sp.
Crambus vulvivagellus Clem.
Myelois albiplagiata Pack. Topeka; Prof. Popenoe.
Conchylis Ridingsana Robinson. Wallace county.
Mochlocera Zelleri Grote.
Fruva tortricina Zeller.
Anaphora sp. Topeka; Prof. Popenoe.
Nola minuseula Zeller.

The writer desires to acknowledge his indebtedness to Messrs A. R. Grote and W. H. Edwards, for many favors in the determination of species. The new species of moths in this last have already been described by Mr. Grote in the "Canadian Entomologist."

ORNITHOLOGY OF RILEY COUNTY, KANSAS.

By Dr. C. P. Blachly, Manhattan.

I have in the following lists put down only those that I know to be here, receiving valuable aid from my friend, Prof. E. A. Popenoe, in the way of identifying birds; also from Prof. F. H. Snow. Many of my specimens have been brought in by farmer friends, and some of the hunters of Manhattan, so that I have not had the opportunity I desired to study their habits. The lists will be increased as I have opportunity, and it is safe to say that the number of species that will be found will easily exceed two hundred.

Two species have been taken that are not on Prof. Snow's catalogue, while quite a number of those marked rare have been found. Three new ones (the Great Blue Heron, King Rail and Little Black Rail) have been found breeding, and two (the Wood Pewee and White Heron) taken under circumstances such as to make it almost certain that they breed.

My list now embraces one hundred and eighty-two species, of forty-three families.

TURDIDÆ: THRUSHES AND MOCKING BIRDS.

Turdus migratorius Linn. American robin. Chiefly migratory, but is occasionally found in flocks in sheltered places during winter. It is growing more abundant each year.

Turdus mustelinus Gm. Wood thrush. Common in summer.

Turdus Swainsoni Cab. Olive-backed thrush.

Mimus polyglottus Linn. Mocking bird. Common summer resident.

Mimus Carolinensis Linn. Catbird. Common summer resident.

Harporhynchus rufus Linn. Brown thrush. Common summer resident.

SAXICOLIDÆ: BLUEBIRDS.

Sialia sialis Linn. Eastern bluebird. Abundant early in spring, and stays late in the fall. Occasional winter resident. Breeds.

SYLVIIDÆ: SYLVIAS.

Polioptila cœrulea Linn. Blue-gray gnat-catcher. Two specimens captured.

PARIDÆ: TITMICE.

Lophophanes bicolor Linn. Tufted titmouse. Inserted on the authority of Prof. A. E. Popenoe.

Parus atricapillus var. *septentrionalis* Harr. Common resident.

SITTIDÆ: NUTHATCHES.

Sitta Carolinensis Gm. White-bellied nuthatch. Common.

TROGLODYTIDÆ: WRENS.

Troglodytes aëdon Vieill. House wren. Common summer resident.

Cistothorus palustris Wilson. Long-billed marsh wren.

Cistothorus stellaris Licht. Short-billed marsh wren.

TLAUDIDÆ: LARKS.

Eremophila alpestris Forst. Horned lark. Abundant; early arrivals from the north being the last of September. It is known to breed occasionally as early as March, retiring in April.

MOTACILLIDÆ: WAGTAILS.

Anthus ludovicianus Gm. Titlark. Migratory; common.

SYLVICOLIDÆ: WARBLERS.

Protonotaria citrœa Bodd. Prothonotary warbler. A single specimen taken.

- Dendroeca aestiva* Gm. Yellowpoll warbler. Abundant in summer.
Dendroeca coronata Linn. Yellow-rumped warbler. Seen as late as Oct. 17th, 1880.
Siurus noveboracensis Gm. Small-billed water-thrush.
Oporornis formosus Wils. Kentucky warbler. Taken the first of June.
Geothlypis trichas Linn. Maryland yellow-throat.
Icteria virens Linn. Yellow-breasted chat. Common summer resident.
Setophaga ruticilla Linn. Redstart. A young bird taken Aug. 16, 1878.

TANAGRIDÆ: TANAGERS.

Pyranga rubra Linn. Scarlet tanager. Common summer resident.

HIRUNDINIDÆ: CLIFF SWALLOWS.

- Hirundo lunifrons* Say. Cliff swallow. Common summer resident.
Hirundo bicolor Vieill. White-billed swallow. Common summer resident.
Cotyle riparia Linn. Bank swallow. Common summer resident.
Progne purpurea Linn. Purple martin. Abundant. Summer resident. Have a curious habit of flocking together about the tallest buildings in towns, for a few days prior to departure, leaving for the South probably in the very early morning. One seen March 17, 1881.

AMPELIDÆ: WAX-WINGS.

Ampelis garrulus Linn. Northern wax-wing. Rare. Three specimens shot from a large flock, Dec. 6, 1879, by Prof. D. E. Lantz, a pair of which are now in the State University.

Ampelis cedrorum Vieill. Cedar bird. Not common; taken Dec. 4th.
Myiadestes Townsendii Aud. Townsend's fly-catching thrush. Rare; a single specimen taken.

VIREONIDÆ: GREENLETS.

- Vireo olivaceus* Linn. Red-eyed vireo. Summer resident; common.
Vireo Bellii Aud. Bell's vireo. Common summer resident.
Vireo gilvus Vieill. Warbling vireo. On the authority of Prof. Popnoe.

LANIIDÆ: SHRIKES.

Collyrio borealis Vieill. Butcher bird. One taken Jan. 16, 1879.
Collyrio Ludovicianus Linn. Loggerhead shrike. One taken March 15.

FRINGILLIDÆ: FLINCHES AND SPARROWS.

- Aegithus linaria* Linn. Red-poll linnet. One specimen, January, 1881.
Chrysomitriss tristis Linn. Yellowbird. Common resident.
Plectrophanes nivalis Linn. Snow bunting. Irregular winter visitant.
Plectrophanes lapponicus Linn. Lapland longspur. Common in winter.
Plectrophanes ornatus Towns. Chestnut-collared bunting.

- Passerculus savanna* Wils. Savanna sparrow. Migratory; common.
Poœcetes gramineus Gm. Grass finch; bay-winged bunting. One specimen taken about the middle of November, 1880.
Caturniculus passerinus Wils. Yellow-winged sparrow.
Melospiza Lincolni Aud. Lincoln's finch. Migratory; one taken in November, 1880.
Junco hyemalis Linn. Black snowbird. Winter resident; common.
Spizella monticola Gm. Tree sparrow. Abundant winter resident.
Spizella socialis Wils. Chipping sparrow. Common summer resident.
Spizella pallida Sw. Clay-colored sparrow. A single specimen taken.
Zonotrichia albicollis Gm. White-throated sparrow. Migratory; common.
Zonotrichia leucophrys Forst. White-crowned sparrow. Migratory; common.
Zonotrichia querula Nutt. Harris's sparrow. Migratory; common.
Passer domesticus L. English sparrow. First seen in spring of 1880. Resident.
Chondestes grammacus Say. Lark finch. Abundant in summer.
Passerella iliaca Sw. Fox sparrow.
Euspiza Americana Gm. Black-throated bunting. Abundant in summer.
Goniapheœa cœrulea Linn. Blue grosbeak. Common in summer.
Cyanospiza cyanea Linn. Indigo-bird. Common summer resident.
Cardinalis Virginianus Linn. Redbird. Resident; common.
Pipilo erythrôphthalmus Linn. Chewink. Summer resident; common.
Pipilo maculatus Sw. var. *arcticus* Sw. Artic towhee; spotted chewink, Rare migrant. One taken by Prof. E. A. Popenoe, October, 1880.

ICTERIDÆ: AMERICAN STARLINGS; BLACKBIRDS.

- Dolichonyx oryzivorus* Linn. Bobolink. Taken in spring.
Molothrus pecoris Gm. Cowbird. Abundant from early spring to late in fall.
Agelæus phœniceus Linn. Red-wing blackbird. Common summer resident.
Xanthocephalus ieterocephalus Bp. Yellow-headed blackbird. Chiefly migratory. Abundant in spring of 1876, feeding on the Rocky Mountain locust. Seen also as late as July 4, 1878.
Sturnella magna Linn. Meadow lark. Summer resident; common. Seen also in sheltered places occasionally during winter.
Var. *neglecta* Aud. Western lark. Same remarks apply as to the above.
Isterus spurius Linn. Orchard oriole. Summer resident; abundant.
Icterus Baltimore Linn. Baltimore oriole. Summer resident; abundant.
Quiscalus purpureus Bart. Crow blackbird. Very abundant in summer, and in fall congregating in large flocks, and going miles to a common roosting place.

CORVIDÆ: CROWS AND JAYS.

- Corvus Americanus* Aud. Common crow. Resident; common.

Pica melanoleuca Vieill. Magpie. Several seen in mid-winter, near Randolph, by Geo. Dougherty, and one in July, 1880, by myself at Manhattan.

Cyanurus cristatus Linn. Blue Jay. Resident; abundant.

TYRANNIDÆ: AMERICAN FLY-CATCHERS.

Tyrannus Carolinensis Linn. Kingbird. Bee martin. Summer resident; abundant.

Myiarchus crinitus Linn. Great-crested fly-catcher. Common summer resident.

Sayornis fusca Gm. Pewee; Phœbe-bird. Common summer resident.

Contopus virens Linn. Wood pewee. Migratory; not common. Taken in summer; probably breeds.

Empidonax obscurus Bd. Wright's fly-catcher. One specimen taken by myself and identified by Prof. E. A. Popenoe.

CAPRIMULGIDÆ: GOAT SUCKERS.

Astrostromus vociferus Wils. Whippoorwill. Rare.

Astrostromus Nuttallii Aud. Nuttall's whippoorwill. Common summer resident.

Chordeiles Virginianus Gm. Night hawk. Common summer resident.

CYPSELIDÆ: SWIFTS.

Chætura pelagia Linn. Chimney swallow. Summer resident; common.

TROCHILIDÆ: HUMMING BIRD.

Thochilus colubris Linn. Ruby-throated humming-bird. Summer resident; common.

ALCEDINIDÆ: KINGFISHERS.

Ceryle alcyon Linn. Belted kingfisher. Summer resident; common.

CUCULIDÆ: CUCKOOS.

Coccyzus Americanus Linn. Yellow-billed cuckoo. Summer resident; common.

PICIDÆ: WOODPECKERS.

Hylotomus pileatus Linn. Black woodcock. Rare resident.

Picus villosus Linn. Hairy woodpecker. Resident; common.

Picus pubescens Linn. Downy woodpecker. Resident; common.

Centerus Carolinus Linn. Red-bellied woodpecker. Resident; common.

Melanerpes erythrocephalus Linn. Red-headed woodpecker. Summer resident; common.

Colaptes auratus Linn. Golden-winged woodpecker. Common resident.

Colaptes auratus var. *hybridus* Baird. Rare.

STRIGIDÆ: OWLS.

Strix flammea Linn. Barn owl. One taken October 12, 1878, is now in the State University.

Bubo Virginianus Gm. Great horned owl. Resident; common.

Scops asio Linn. Screech owl. Resident; common.

Otus Wilsonianus Less. Long-eared owl.

Brachyotus palustris Bechst. Short-eared owl.

Syrnium nebulosum Forst. Barred owl. Common.

Nyctale acadica Gm. Saw-whet owl. Rare. Taken Feb. 8, 1879.

Speotyto cunicularia Mol. Burrowing owl. Once common, but not now found in Riley county.

FALCONIDÆ: DIURNAL BIRDS OF PREY.

Cirus Hudsonius Linn. Marsh hawk. Resident; common.

Nauclerus fuscatus Linn. Swallowed-tailed kite. Rare. A handsome specimen, taken the 1st of September, 1880, had lost the beak to the upper end of the cere. This had healed perfectly when captured. The bird is now in my possession.

Accipiter fuscus Gm. Sharp-shinned hawk. Migratory; common.

Astur atricapillus Wils. Goshawk. A female that had just finished eating a rabbit was captured by W. F. Allen, in February, 1878. It is now in the cabinet of the State University.

Falco sacer Forst. var. *islandicus* Cass. Jer-falcon. One specimen taken, fall of 1880.

Falco columbarius Linn. Duck hawk. Rare. One specimen taken.

Falco sparverius Linn. Pigeon hawk. Taken in December 1878.

Falco sparverius Linn. Sparrow hawk. Resident; common.

Buteo Harlani Aud. Harlan's hawk. One specimen taken.

Buteo borealis Gm. Red-tailed hawk. Common; resident. A nest of three eggs was taken by Mr. Persons, from a tree on his land. The same birds nesting again, Prof. E. A. Popenoë and myself took the two eggs, which were nearly ready to hatch.

Buteo lineatus Gm. Red-shouldered hawk.

Archibuteo lagopus Brunn. var. *Saneti-Johannis* Gm. Rough-legged hawk. Taken Jan. 11.

Pandion haliaetus Linn. Fish-hawk. A fine specimen taken by Geo. W. Harrop, Oct. 14th, 1880.

Aquila chrysaëtus Linn. Golden eagle. Not uncommon in winter.

Halitaëus leucocephalus Linn. Bald eagle. Resident; rare. A fine specimen was not captured when it swooped down upon a stuffed goose (*Branta Canadensis*), set out on a sandbar for a decoy. The pedestal on which the goose was mounted, being covered with sand, was quite heavy, so it only overturned when struck by the talons of the eagle. The eagle then alighted for a moment by the side of the decoy, and gave it a look of unutterable surprise and disgust which was only exceeded by my own, as he spread his noble pinions and sailed away out of my sight before I could bring my gun to bear on him.

CATHARTIDÆ: VULTURES.

Cathartes aura Linn. Turkey buzzard. Common; resident.

COLUMBIDÆ: DOVES.

Zenædura Carolinensis Linn. Common dove. Summer resident; abundant. Also seen in sheltered places during the entire year.

MELEAGRIDIDÆ: TURKEYS.

Meleagris gallopavo Linn. Wild turkey. Once common; now rare.

TETRAONIDÆ: GROUSE; QUAIL.

Cupidonia cupido Linn. Prairie chicken. Resident; abundant.
Ortyx Virginianus Linn. Bob-white; quail. Resident; abundant.

CHARADRIIDÆ: PLOVERS.

Charadrius fulvus Gm. var. *Virginicus* Bork. Golden plover. Migratory.

Ægialitis vociferus Linn. Killdeer. Plover. Summer resident; abundant; seen as late as November 7, 1880.

Ægialitis semipalmatus Bp. Ring plover. One specimen.

RECURVIROSTRIDÆ: AVOCETS.

Recurvirostra Americana Gm. American avocet. Migratory; not common.

PHALAROPODIDÆ: PHALAROPES.

Phalaropus Wilsoni Sab. Wilson's phalarope. Migratory; rare.

SCOLOPACIDÆ: SNIPE, CURLEW, ETC.

Gallinago Wilsoni Temm. American snipe. Migratory; common.

Macrorhamphus griseus Gm. Red-breasted snipe. Migratory.

Macrorhamphus scolopaeus Say. Long-billed snipe. Migratory; rare.

Micropalama himantopus Bp. Stilted sandpiper. Migratory; rare.

Ereunetes pusillus Linn. Semipalmated sandpiper. Migratory; rare.

Tringa minutilla Vieill. Least sandpiper; migratory; abundant.

Tringa maculata Vieill. Jack-snipe; migratory; common.

Tringa Bonapartii Schl. White-rumped sandpiper; migratory; rare.

Totanus semipalmatus Gm. Willet. Migratory; common. Two specimens taken by Master John Elliott, June 1st, 1880.

Totanus melanoleucus Gm. Greater telltale. Migratory; common.

Totanus flavipes Gm. Yellow-legs. Migratory; abundant.

Totanus solitarius Wils. Solitary tattler. Not common; probably breeds; taken August 13.

Tringoides macularius Linn. Spotted sandpiper.

Actiturus Bartramius Wils. Field-plover. Summer resident; abundant.
Tryngites rufescens Vieill. Buff-breasted sandpiper. Migratory.
Numenius longirostris Wils. Long-billed curlew. Summer resident; not uncommon; taken June 17.
Numenius borealis Forst. Esquimaux curlew. Migratory.

ARDEIDÆ: HERONS.

Ardea herodias Linn. Great blue heron. Summer resident; common. Four nests in one sycamore tree were a great temptation to me, but I could not reach them.

Ardea egretta Gm. White heron. Probably breeds, as a family were seen, of which one old one and one half grown were captured by Rev. A. B. Campbell, about the 1st of August, 1880.

Ardea virescens Linn. Green heron. Summer resident; common.

Botaurus minor Gm. Bittern; stakedriver. Summer resident; common.

Ardetta exilis Gm. Least bittern. Rare.

GRUIDÆ: CRANES.

Grus Americanus Linn. White or whooping crane. Migratory; rare.

Grus Canadensis Linn. Sandhill crane. Migratory; common. Passes north about the middle of April. From a flock of four, two were shot, April 15th, one of which showed a good many white feathers on the thighs, and some on the neck.

RALLIDÆ: RAILS.

Rallus elegans Aud. King rail. Rare. A nest of eight eggs and the female were taken in May, 1880. The male was seen several days later in the same place, but was not captured.

Porzana carolina Linn. Common rail. Migratory.

Porzana Jamaicensis Gm. Little black rail. Rare. Two taken, one on Sept. 4, 1878, and one in June of 1880. Also, at same date and place as the last, a nest of eight eggs that had been washed out by high water.

Fulica Americana Gm. Coot; mud hen. Abundant; migratory. Probably breeds.

ANATIDÆ: SWANS, GEESE, AND DUCKS.

Cygnus buccinator Rich. Trumpeter swan. Migratory; rare; passes north about the 1st of March.

Anser albifrons Gm. var. *Gambeli* Hart. Laughing goose. Two specimens taken.

Anser hyperboreus Pall. Snow goose. Migratory; common.

Branta Canadensis Linn. Canada goose. Migratory; abundant in migration, and a rare winter resident.

Branta Hutchinsii Sw. Hutchinson's goose. Migratory; not common.

Anas boschas Linn. Mallard duck. Migratory; abundant.

Dafila acuta Linn. Pintail duck. Migratory; common.

Chaulelasmius streperus Linn. Gadwall; grey duck. Migratory common.

Mareca Americana Gm. American widgeon. Migratory; common.
Querquedula Carolinensis Gm. Green-winged teal. Migratory; abundant.
Querquedula discors Linn. Blue-winged teal. Migratory; common.
Spatula clypeata Linn. Shoveler; spoon-bill. Migratory.
Aix sponsa Linn. Summer duck. Summer resident.
Fuligula affinis Eyt. Little black-head. Common. A specimen taken
 with a white feather in one wing.
Fuligula Donov. Ring-necked duck. Migratory.
Aythya Americana Eyton. Red-head duck. Migratory; common.
Aythya vallisneria Wils. Canvas-back duck. Migratory; common.
Bucephala clangula Linn. Golden-eyed duck. Migratory; rare; winter
 resident. Two taken about the 1st of December, by Dan. Casement.
Bucephala alboeola Linn. Butterball. Migratory; common.
Erismatura rubida Wils. Ruddy duck. Migratory; rare.
Mergus Merganser Linn. Merganser; goosander. Migratory.
Mergus serrator Linn. Red-breasted merganser. Migratory.
Mergus cucullatus Linn. Hooded merganser. Migratory.

PELECANIDÆ: PELICANS.

Pelecanus erythrorhynchus Gm. American Pelican. Migratory; com-
 mon. Pass north about the 10th of April, in large flocks. One female was
 taken that had eggs developed to the size of one inch in diameter. The bill
 of this specimen bore a well-developed "button."

PHALACROCORACIDÆ: CORMORANTS.

Graculus dilophus Sw. Double-crested cormorant. Migratory; rare.

LARIDÆ: TERNS.

Hydrochelidon lariformis Linn. Black tern; short-tailed tern. Migratory;
 rare. Taken May 13, 1878.

COLYMBIDÆ: LOONS.

Colymbus torquatus Brunn. Loon. One immature specimen taken.

PODICIPIDÆ: GREBES.

Podiceps auritus Linn. var. *Californicus* Heerm. American eared
 grebe. Migratory; rare. One taken Sept. 30, 1878, is now in the Smith-
 sonian Institution.

Podilymbus podiceps Linn. Pied-billed Grebe; dabchick. Migratory.

The following are resident:

Robin.	Meadow lark.
Black-capped tit.	Western lark.
White-bellied nuthatch.	Crow.
American goldfinch.	Blue jay.
English sparrow.	Black woodcock.
Redbird.	Hairy woodpecker.

Downy woodpecker.
Red-bellied woodpecker.
Golden-winged woodpecker.
Great horned owl.
Barred owl.
Marsh hawk.
Red-tailed hawk.

Bald eagle.
Turkey buzzard.
Dove.
Turkey.
Prairie chicken.
Quail—25.

List of specimens that breed in this county. Those marked with a * have been taken in the breeding season, but are not positively known to breed.

Robin.
Wood thrush.
Mocking bird
Catbird.
Brown thrush.
Bluebird.
House wren.
horned lark.
Yellow warbler.
Kentucky warbler.*
Maryland yellow-throat.*
Yellow-breasted chat.
Redstart.*
Scarlet tanager.
Cliff swallow.
White-bellied swallow.
Bank swallow.
Purple martin.
Red-eyed vireo.
Bell's vireo.
Yellow bird.
Yellow-winged sparrow.
Chipping sparrow.
English sparrow.
Lark finch.
Black-throated bunting.
Blue grosbeak.
Indigo bird.
Redbird.
Chewink.
Cowbird.
Red-winged blackbird.
Meadow lark.
Western lark.
Orchard oriole.
Baltimore oriole.
Crow blackbird.
Crow.
Blue jay.
King-bird.

Great-crested flycatcher.*
Wood pewee.*
Whippoorwill.*
Nuttall's whippoorwill.*
Night hawk.
Chimney swallow.
Humming bird.
Kingfisher.
Yellow-billed cuckoo.
Black woodcock.
Hairy woodpecker.
Downy woodpecker.
Red-bellied woodpecker.
Red-headed woodpecker.
Golden-winged woodpecker.
Great horned owl.
Screech owl.*
Barred owl.
Marsh hawk.
Sparrow hawk.
Red-tailed hawk.
Bald eagle.
Turkey buzzard.
Carolina dove.
Prairie chicken.
Turkey.
Quail.
Kildeer plover.
Field plover.
Solitary tattler.*
Long-billed curlew.
Great blue heron.
White heron.*
Green heron.
Bittern.
King rail.
Little black rail.
Coot.
Wood duck.
Hooded mersanger (?)*—80.

List of winter residents only. Those marked with a * are rare.

Northern waxwing.*
Butcher bird.*
Lapland longspur.
Black snow-bird.

Golden eagle.
Tree sparrow.
Harris's sparrow.—7.